PATENT COOPERATION TREATY

PCT/IL2005/000906

From the INTERNATIONAL BUREAU PCT To: NOTIFICATION CONCERNING FENSTER, Paul TRANSMITTAL OF COPY OF INTERNATIONAL FENSTER & COMPANY, INTELLECTUAL PROPERTY PRELIMINARY REPORT ON PATENTABILITY LTD. received (CHAPTER I OF THE PATENT COOPERATION P. O. BOX 10256 49002 PETACH TIKVA TREATY) ISRAËL 02 APR 2007 (PCT Rule 44bis.1(c)) FILE No. 34603 Date of mailing (day/month/year) G.E. SHRLICE (1998) LTD. 08 March 2007 (08.03.2007) Applicant's or agent's file reference IMPORTANT NOTICE 414/04517 Priority date (day/month/year) International filing date (day/month/year) International application No. 18 August 2005 (18.08.2005) 25 August 2004 (25.08.2004) PCT/IL2005/000906 Applicant REABILITY INC. et al The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 414/04517	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/IL2005/000906			<u></u>	
International Patent Classification (8th See relevant information in Form P	n edition unless older edition indicated) PCT/ISA/237			
Applicant REABILITY INC.				

This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the 1. International Searching Authority under Rule 44 bis.1(a). This REPORT consists of a total of 7 sheets, including this cover sheet. 2. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead. This report contains indications relating to the following items: 3. Box No. I Basis of the report Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial Box No. III applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but 4. not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority

	Date of issuance of this report 28 February 2007 (28.02.2007)		
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Form PCT/IB/373 (January 2004)

date (Rule 44bis .2).

From the			PATENT COOPE	ERATION 1	REATY	REC'D 13 J	iun 2006		
INTERNATIONAL SEARCHING AUTHORITY To: PAUL FENSTER FENSTER & COMPANY, INTELLECTUAL PROPERTY LTD.			PCT WIPO PC						
P. O. BOX 10256 PETACH, ISRAEL 49002		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY							
				(PCT Rule 43bis.1)					
				Date of mailing (day/month/year) 08, JUN 2006					
Applicant's or agent's file reference			FOR FURTHER ACTION						
414/045					See paragraph 2 below	w			
1	onal application N	io.	International filing date ((day/month/year) Priority date (day/month/year)					
PCT/IL0			18 August 2005 (18.08.2	005)	25 August 2004 (25.08.2004)				
			both national classification	on and IPC					
IPC: USPC:	A61H 1/00(200 601/5,33;600/54:	6.01) A61B 5/04((2006.01)						
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	ITY INC.								
1. This	opinion contains i	indications relatir	ng to the following items						
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	Box No. I	Basis of the op	inion						
	Box No. II	Priority							
	Box No. III	Non ostablish							
		Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
	Box No. IV	Lack of unity o							
	Box No. V	x No. V Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI	Certain docume							
	Box No. VII	Certain defects i	in the international applie	ration					
\boxtimes	Box No. VIII								
			tions on the international	application					
	THER ACTION								
Author	rity other than this	one to be the IL	v examination is made, ithority ("IPEA") excep PEA and the chosen IPE Searching Authority will	n mat uns does	be considered to be a w not apply where the a he International Bureau u tered.	ritten opinion of pplicant chooses nder Rule 66.1bi	f the s an is(b)		
of Forn	opinion is, as pro a written reply tog n PCT/ISA/220 or ther options, see F	before the expira	ation of 22 months from	opinion of the I nts, before the ex the priority date,	PEA, the applicant is inv piration of 3 months from whichever expires later.	ited to submit to n the date of mai	the ling		
3. For furt	her details, see no	tes to Form PCT/	/ISA/220.						
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P.O. Box 1450			11 April 2006 (11.0	4.2006)	Gregory L Huson	amia J	alar		
Alexandria, Virginia 22313-1450 acsimile No. (571) 273-3201					Gregory L Huson	harma in	~~ <i>†</i>		
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Fa For C1/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL05/00906

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 11,13,19 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claims are indefinite for the following reason(s): They recite the phrase "said measurement," indicating that a measurement was claimed earlier. However these claims, as well as their parent claim 1 do not claim a measurement. Therefore there is a lack of anteceding basis for the "said measurement."

Claim 60 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claim is indefinite for the following reason(s): It is not clear what is being claimed. It seems as part (a) and part (b) are identical for they both claim the reorganization of brain functions. Furthermore, part (b) is unclear and seems to be a run on sentence. Was a comma intended to be placed between "reorganizing" and "rehabilitating?"

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

International application No. PCT/IL05/00906

V.1. Reasoned Statements:

The opinion as to Novelty was positive (Yes) with respect to claims 4,6,10-16,22,23,25,27,31,32,35-42,44,46-66,68,69,71-81 The opinion as to Novelty was negative (No) with respect to claims 1-3,5,7-9,17-21,24,26,28-30,33,34,43,45,67,70 The opinion as to Inventive Step was positive (Yes) with respect to claims 4,6,10-16,22,23,25,27,31,32,35-42,44,46-66,68,69,71-81 The opinion as to Inventive Step was negative(NO) with respect to claims 1-3,5,7-9,17-21,24,26,28-30,33,34,43,45,67,70 The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-81 The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE

V. 2. Citations and Explanations:

Claims 1-3,5,7-9,17-21,24,26,28-30,33,34,43,45,67,70, lack novelty under PCT Article 33(2) as being anticipated by Dean, Jr. et al. Regarding claim 1, the reference comprises a movement element capable of controlling at least one motion parameter of a portion of a patient. The reference also suggests the monitoring of brain wave activity. A data acquisition computer encompasses circuitry and includes a memory for the storage of rehabilitation information. Because the reference states that the computer "responds appropriately to the patient's state of mind," it is evident that the signal for the brain wave monitor is interrelated with the movement of the movement

Regarding claim 2, fig. 5 shows that a limb is put into motion.

Regarding claim 3, the data acquisition computer or circuitry controls the movement element.

Regarding claim 5, force is applied the portion of a patient against his/her movement. This constitutes resistance to movement.

Regarding claim 7, the said force is adjustable from zero to greater than the user's body weight. Thus the said circuitry must measure the force before it allows its adjustment, as well as after the said adjustment. Regarding claim 8, pre-programmed or custom exercise regimens are provided and constitute a rehabilitation plan.

Regarding claim 9, feedback to the patient's performance is provided.

Regarding claims 17,18, because the invention of the reference comprises a brain wave monitor, it is capable of sending information to the circuitry that will detect an intent, as well as a readiness to move. Based on this "state of mind" the movement element

Regarding claim 19, in response to the user's production of insufficient force (a detection of movement or lack thereof) the apparatus will decrease the force.

Regarding claim 20, the recordings of readings from electrodes placed on a user's head are known as an electroencephalogram (EEG) and represent brain waves. Thus, a brain wave monitor encompasses an EEF monitor. Regarding claim 21, the apparatus comprises a heart rate monitor, a device that inherently measure blood flow.

Regarding claim 24, the apparatus comprises means to provide force against the movement of a portion or a patient and is controllable by the circuitry. Regarding claim 26, a body portion can either be engaged, or disengaged from the apparatus.

Regarding claim 28, the circuitry comprises a memory that stores a patient's performance data/rehabilitation progress.

Regarding claim 29, the apparatus comprises two movement elements that the circuitry moves in opposite directions to simulate walking, thus recognizing each as being associated with opposite limbs. Regarding claim 30,33 see rejection of claim 1.

Regarding claim 34, the movement of the movement element comprises a plurality of motions. Form PCT/ISA/237 (Supplemental Box) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00906

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Regarding claim 43,45 a user's motion is measured and recorded as part of a patient's performance data. Regarding claim 67,70, brain activity is measured during the repeated movements of the movement element and analyzed by the circuitry.

Claims 4,6,10-16,22,23,25,27,31,32,35-42,44,46-81 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the control of the direction and location of movement or a reach point by circuitry, the measurement of a parameter of motion of said movement, a template of expected brain-motion relationship, the generation of expected motion based on the measurement of brain waves, the generation of expected brain activity based on movement, the comparison of said measurement to rehabilitation information as well as its trends, the change of a motion parameter responsive to said measurement within a time from of said movement, a fMRI brain wave monitor, a robotic manipulator, unrestricted movement in 3D space over 30cm said motion at least 10 times, repeating and controlling 20 different motions, comparing motions and measurements for a healthy side applying treatment and delivering a drug, using external stimulation, detecting intent to carry out physical activity, a spatial manipulator, and measuring movement of a patient in response to imagery

Claims 1-81 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

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